



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
2026839
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0108062 | PCA0101105 | PCA0085159 |
| Sample Date | | Client Info | | 11 Jan 2024 | 05 Sep 2023 | 28 Nov 2022 |
| Machine Age | mls | Client Info | | 335250 | 298688 | 217532 |
| Oil Age | mls | Client Info | | 40000 | 40000 | 40000 |
| Filter Age | mls | Client Info | | 40000 | 40000 | 40000 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 36 | 34 | 23 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 4 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 1 | 2 |
| Copper | ppm | ASTM D5185m | >330 | 7 | 8 | 11 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

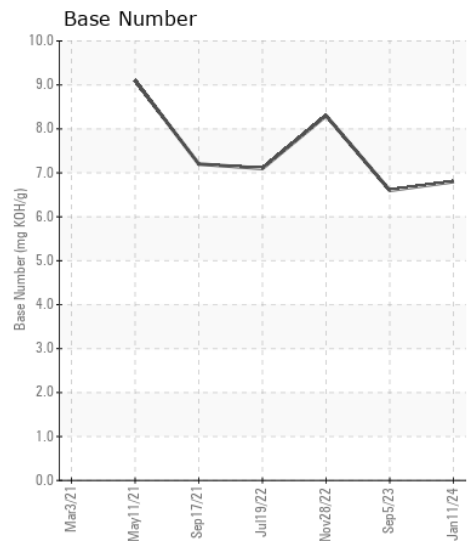
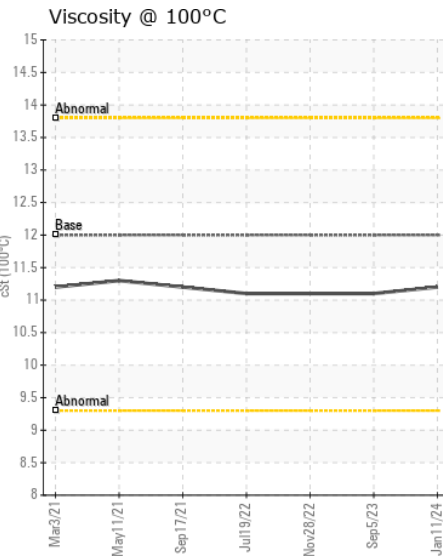
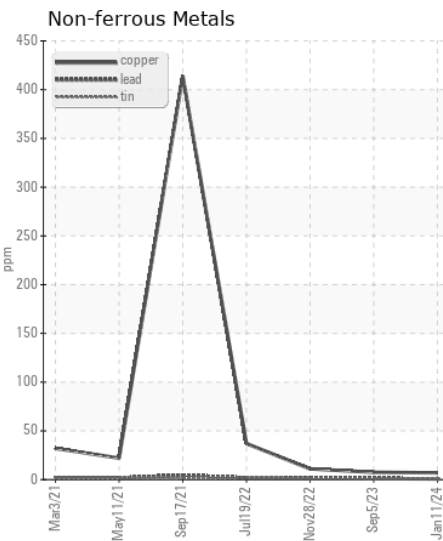
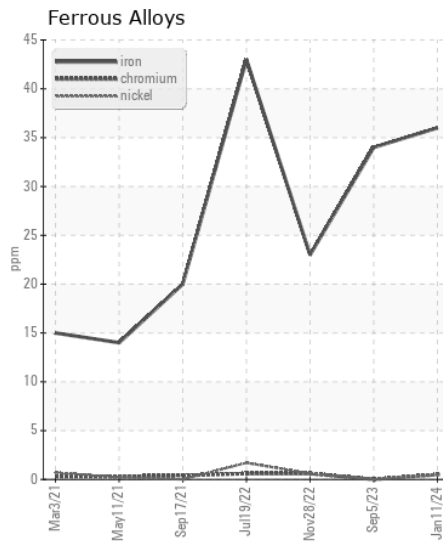
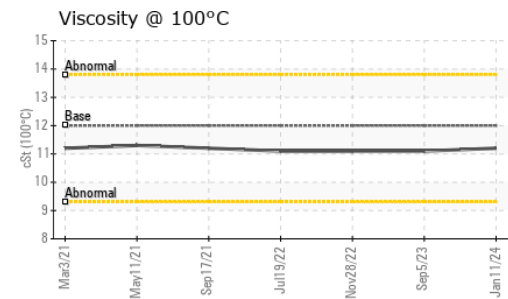
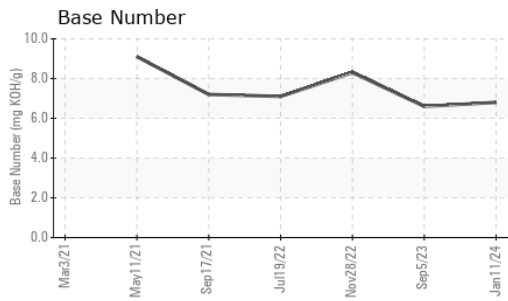
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 5 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | <1 | 6 |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.4 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.5 | 9.4 | 10.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.0 | 19.5 | 21.4 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 1 | 2 | 2 |
| Boron | ppm | ASTM D5185m | 2 | 1 | 0 | 1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 61 | 61 | 59 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 950 | 1005 | 935 | 944 |
| Calcium | ppm | ASTM D5185m | 1050 | 1139 | 1166 | 1212 |
| Phosphorus | ppm | ASTM D5185m | 995 | 1048 | 965 | 974 |
| Zinc | ppm | ASTM D5185m | 1180 | 1288 | 1207 | 1245 |
| Sulfur | ppm | ASTM D5185m | 2600 | 3110 | 3363 | 3366 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.4 | 14.9 | 16.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.8 | 6.6 | 8.3 |
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 11.2 | 11.1 | 11.1 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108062 **Received** : 17 Jan 2024
Lab Number : 06062331 **Diagnosed** : 18 Jan 2024
Unique Number : 10833713 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - Lewiston
 210 GRIFFINS QUARTER RD
 LEWISTON, NC
 US 27849
 Contact: NELSON WALLACE
 nelson.wallace2@perdue.com

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)